

FORM PTO-1390
(REV. 01-2003)

US DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE

ATTORNEY'S DOCUMENT NUMBER
121214**TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371**U.S. APPLICATION NO. (If known, see 37 CFR 1.5)
New U.S. National Stage of PCT/JP03/05130INTERNATIONAL APPLICATION NO.
PCT/JP03/05130INTERNATIONAL FILING DATE
April 22, 2003PRIORITY DATE CLAIMED
April 26, 2002TITLE OF INVENTION
COIN CONFIGURATION DETECTION METHOD, COIN IDENTIFICATION SENSOR, AND COIN IDENTIFICATION APPARATUSAPPLICANT(S) FOR DO/EO/US
Kazuhiro YAMAKAWA; Kazuaki TABATA

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☐ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☒ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☐ The US has been elected (Article 31).
5. ☐ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☐ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
 - c. ☐ The International Application was filed in English.
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☐ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☒ A Transmittal of Power of Attorney with Specific Powers of Attorney (2)
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13~~ter~~.2 and 37 CFR 1.821 - 1.825.
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☐ Other items or information:

U.S. APPLICATION NO. (if known, see 37 C.F.R. 1.5) New U.S. National Stage of PCT/JP03/05130		INTERNATIONAL APPLICATION NO. PCT/JP03/05130		ATTORNEY'S DOCKET NUMBER 121214	
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21. <input type="checkbox"/> The following fees are submitted: BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5)): Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO..... \$1,110.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO..... \$ 950.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO..... \$ 790.00 International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4)..... \$ 750.00 International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4)..... \$ 100.00 ENTER APPROPRIATE BASIC FEE AMOUNT =				CALCULATIONS PTO USE ONLY	
				\$	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total Claims	20 - 20 =	0	X \$ 18.00	\$	
Independent Claims	2 - 3 =	0	X \$ 88.00	\$	
MULTIPLE DEPENDENT CLAIM(S)(if applicable)			+ \$300.00	\$	
TOTAL OF ABOVE CALCULATIONS =				\$	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$	
SUBTOTAL =				\$	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	
TOTAL NATIONAL FEE =				\$	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				\$	
TOTAL FEES ENCLOSED =				\$	
				Amount to be refunded: \$	
				charged: \$	

a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>15-0461</u> . A duplicate copy of this sheet is enclosed. d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.	NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.
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SEND ALL CORRESPONDENCE TO: OLIFF & BERRIDGE, PLC Customer Number: 25944 Date <u>October 28, 2004</u>	 NAME: James A. Oliff REGISTRATION NUMBER: 27,075 NAME: Robert A. Miller REGISTRATION NUMBER: 32,771
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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Kazuhiro YAMAKAWA et al.

Application No.: New U.S. National Stage of
PCT/JP03/05130

Filed: October 22, 2004

Docket No.: 121214

For: COIN CONFIGURATION DETECTION METHOD, COIN IDENTIFICATION SENSOR,
AND COIN IDENTIFICATION APPARATUS

**TRANSMITTAL OF POWER OF ATTORNEY AND
STATEMENT UNDER 37 CFR § 3.73(b)**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

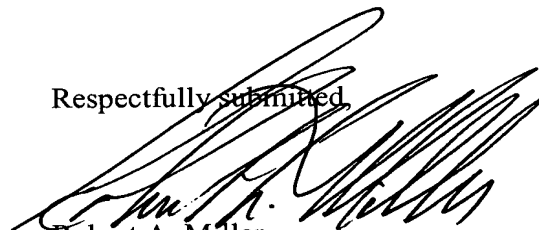
Sir:

In compliance with 37 CFR §3.73(b), the undersigned hereby states that AZUMA
SYSTEMS CO., LTD and MINERVA CO., LTD. are the assignees of the entire right, title and
interest in the patent application identified above by virtue of an assignment from the inventors of
the patent application identified above. A copy of the assignment is attached hereto.

The undersigned is authorized to act on behalf of the assignee.

**ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD
BE SENT TO OLIFF & BERRIDGE, PLC, CUSTOMER NO. 25944, TELEPHONE
(703) 836-6400.**

Respectfully submitted,



Robert A. Miller

Registration No. 32,771

JAO:RAM/mlo

Date: October 22, 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
米国特許商標庁において

In re the Application of/出願人名
Kazuhiro YAMAKAWA et al.

Group Art Unit/グループ技術ユニット名:
Unknown

Application No./出願番号: U.S. National Stage of PCT/JP03/05130
filed April 22, 2003

Examiner/審査官: Unknown

Filed/出願日:

Docket No./整理番号: 121214

For/発明の名称: COIN CONFIGURATION DETECTION METHOD, COIN IDENTIFICATION SENSOR, AND COIN
IDENTIFICATION APPARATUS

SPECIFIC POWER OF ATTORNEY

特定委任状

Japanese Language Specific Power of Attorney

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

下記段落の理由により、上記特許出願の全ての権利、所有
権、および権益を有する(該当するものにチェック)
☐所有者である (会社名
記入)もしくは、☐共同所有者である
(会社名記入)は、

AZUMA SYSTEMS CO., LTD.,

(Check one)

☐ owner or ☒ co-owner of the entire right, title and
interest in the above patent application by virtue of:

(該当するものにチェック)

- a. ☐ 発明者であり、もしくは
b. ☐ 譲渡者であり

(該当するものにチェック)

- i. ☐ コピー添付、もしくは
ii. ☐ 米国特許庁マイクロフィルム記録のリール番号
、 駒番号 に記録されてお

り、

(Check one)

- a. ☐ being an inventor, or
b. ☒ an Assignment

(Check one)

- i. ☒ copy attached, or
ii. ☐ recorded at Reel

Frame of the Patent Office microfilm records,

下記署名は、所有権の一連を顧み、前記所有権が所有者にあ
ることを確認する。下記署名人は、所有者として、もしくは
所有者の代理として、任務を行う権限を有する。

この出願に関するすべての連絡事項は、Oliff & Berridge,
PLC、顧客番号25944、電話番号(703) 836-6400に送付するこ
と。

The undersigned has reviewed the chain of title
and confirms that the aforesaid title is in the owner. The
undersigned is authorized to execute this document as or on
behalf of the owner.

**ALL CORRESPONDENCE IN CONNECTION WITH
THIS APPLICATION SHOULD BE SENT TO OLIFF
& BERRIDGE, PLC, CUSTOMER NO. 25944,
TELEPHONE (703) 836-6400.**

October 20, 2004
Date/日付

Kazuhiro Yamakawa
Signature/署名

Kazuhiro YAMAKAWA
Typed Name/タイプライターによる氏名

Title/役職名: President and Representative Director
(if acting on behalf of an Owner)
(所有者の代理を務める場合)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
米国特許商標庁において

In re the Application of/出願人名
Kazuhiro YAMAKAWA et al.

Group Art Unit/グループ技術ユニット名:
Unknown

Application No./出願番号: U.S. National Stage of PCT/JP03/05130
filed April 22, 2003

Examiner/審査官: Unknown

Filed/出願日:

Docket No./整理番号: 121214

For/発明の名称: COIN CONFIGURATION DETECTION METHOD, COIN IDENTIFICATION SENSOR, AND COIN IDENTIFICATION APPARATUS

SPECIFIC POWER OF ATTORNEY

特定委任状

Japanese Language Specific Power of Attorney

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

下記段落の理由により、上記特許出願の全ての権利、所有権、および権益を有する(該当するものにチェック)
☐ 所有者である _____ (会社名記入)もしくは、☐ 共同所有者である _____ (会社名記入)は、

MINERVA CO., LTD.,

(Check one)

☐ owner or ☒ co-owner of the entire right, title and interest in the above patent application by virtue of:

(該当するものにチェック)

- a. ☐ 発明者であり、もしくは
b. ☐ 譲渡者であり

(該当するものにチェック)

- i. ☐ コピー添付、もしくは
ii. ☐ 米国特許庁マイクロフィルム記録のリーül番号 _____、駒番号 _____ に記録されてお

り、

(Check one)

- a. ☐ being an inventor, or
b. ☒ an Assignment

(Check one)

- i. ☒ copy attached, or
ii. ☐ recorded at Reel _____,

Frame _____ of the Patent Office microfilm records,

下記署名は、所有権の一連を顧み、前記所有権が所有者にあることを確認する。下記署名人は、所有者として、もしくは所有者の代理として、任務を行う権限を有する。

この出願に関するすべての連絡事項は、Oliff & Berridge, PLC、顧客番号25944、電話番号(703) 836-6400に送付すること。

The undersigned has reviewed the chain of title and confirms that the aforesaid title is in the owner. The undersigned is authorized to execute this document as or on behalf of the owner.

ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, CUSTOMER NO. 25944, TELEPHONE (703) 836-6400.

October 21, 2004
Date/日付

Masaharu Komori
Signature/署名

Masaharu KOMORI

Typed Name/タイプライターによる氏名

Title/役職名: President and Representative Director
(if acting on behalf of an Owner)
(所有者の代理を務める場合)

ASSIGNMENT (Two Assignees)

(1-8) Insert Name(s) of Inventor(s)

(1) Kazuhiro YAMAKAWA (4) _____
 (2) Kazuaki TABATA (5) _____
 (3) _____ (6) _____

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set over to

(9A) Insert Name of First Assignee
 (10A) Insert Address of First Assignee
 (9B) Insert Name of Second Assignee
 (10B) Insert Address of Second Assignee

(9A) AZUMA SYSTEMS CO., LTD.
 (10A) 1093 Oaza Menuma, Menumamachi, Osato-gun, Saitama 360-0201 Japan
 (9B) MINERVA CO., LTD.
 (10B) 684-1 Shimobun, Kagami-cho, Kami-gun, Kochi, 781-5452 Japan

(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, confirmation, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

(11) Insert Identification, such as Title, Case Number or Foreign Application Number

(11) COIN CONFIGURATION DETECTION METHOD, COIN IDENTIFICATION SENSOR, AND COIN IDENTIFICATION APPARATUS

Attorney Docket No. 121214

for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or

(12) Insert Date of Signing of Application

(12) on October 20, 2004

(13) Alternative Identification for filed applications

(13) U.S. Application Serial Number _____

filed October 22, 2004

- 1) Each undersigned agrees to execute all papers necessary in connection with the application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignees may deem necessary.
- 2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof, or any patent or reissue application based thereon, and to cooperate with the Assignees in every way possible in obtaining evidence and going forward with such interference.
- 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignees.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all Letters Patents of the United States resulting from said application or any divisional, continuing or reissue applications to the said Assignees, as Assignees of the entire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of OLIFF & BERRIDGE, PLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date <u>October 20, 2004</u>	Inventor Signature <u>Kazuhiro Yamakawa</u> (SEAL)
Date <u>October 20, 2004</u>	Inventor Signature <u>Kazuaki Tabata</u> (SEAL)
Date _____	Inventor Signature _____ (SEAL)
Date _____	Inventor Signature _____ (SEAL)
Date _____	Inventor Signature _____ (SEAL)
Date _____	Inventor Signature _____ (SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date <u>2004.10.20.</u>	Witness <u>[Signature]</u>
Date <u>October 20, 2004</u>	Witness <u>[Signature]</u>

BEST AVAILABLE COPY